

This listing of claims will replace all prior versions, and listing, of claims in the application:

LISTING OF CLAIMS:

Claim 1 (Canceled).

Claim 2 (Canceled).

Claim 3 (Canceled).

Claim 4 (Previously Presented) The system as claimed in Claim 35, wherein said first communications sub-system comprises a telephone system including a telephone keypad, said user identification code comprising a sequence of one or more dual-tone multi-frequency DTMF signals entered by said user via said telephone keypad.

Claim 5 (Original) The system as claimed in Claim 4, wherein said server control device includes mechanism responsive to said user identification code for retrieving said personalized menu of types of data to be transmitted and generates a voice transmission for presenting said personalized menu selections to said user via said telephone system.

Claim 6 (Original) The system as claimed in Claim 5, wherein said user selects a type of data to be transmitted via said telephone keypad, said server control device includes mechanism for receiving DTMF signals and interpreting said DTMF signals for association with said user menu selection.

Claim 7 (Previously Presented) The system as claimed in Claim 35, wherein said first communications sub-system comprises a personal computing device implementing a Web browser for accessing and communicating with said server control device via Web-based communications, wherein said user identification code comprises entry of a password entry via a keyboard device entered in a Web page.

Claim 8 (Original) The system as claimed in Claim 7, wherein said server control device includes mechanism responsive to said user identification code for retrieving said personalized menu of types of data to be transmitted and generates a Web-based communication for receipt by said user Web browser to present said personalized menu.

Claim 9 (Original) The system as claimed in Claim 8, wherein said user selects a type of data to be transmitted via a mouse device by clicking a menu choice presented on a Web page.

Claim 10 (Previously Presented) The system as claimed in Claim 35, wherein said second communications sub-system comprises a paging network.

Claim 11 (Previously Presented) The system as claimed in Claim 35, wherein said second communications sub-system comprises a BlueTooth wireless communications network.

Claim 12 (Canceled).

Claim 13 (Canceled).

Claim 14 (Canceled).

Claim 15 (Canceled).

Claim 16 (Previously Presented) The method as claimed in Claim 36, wherein said first communications sub-system comprises a telephone system including a telephone keypad, said user identification code comprising a sequence of one or more dual-tone multi-frequency DTMF signals entered by said user via said telephone keypad.

Claim 17 (Original) The method as claimed in Claim 16, wherein said presenting step further includes the steps of:

retrieving said personalized menu of types of data to be transmitted from a storage device; and,

generating a voice transmission for presenting said personalized menu selections to said user via said telephone system in response to said user identification code.

Claim 18 (Original) The method as claimed in Claim 17, wherein said retrieving step b) further includes the steps of receiving DTMF signals associated with said user menu selection and interpreting said received DTMF signals for retrieving said requested data.

Claim 19 (Previously Presented) The method as claimed in Claim 36, wherein said first communications sub-system comprises a personal computing device implementing a Web

browser for accessing and communicating with said server control device via Web-based communications, said user identification code comprising a password entry via a keyboard device entered in a Web page.

Claim 20 (Original) The method as claimed in Claim 19, wherein said presenting step further includes the steps of:

retrieving said personalized menu of types of data to be transmitted; and,
generating a Web-based communication for receipt by said user Web browser to present said personalized menu.

Claim 21 (Original) The method as claimed in Claim 20, wherein said retrieving step b) is responsive to a user mouse click on a Web page menu selection of a type of data to be transmitted.

Claim 22 (Canceled).

Claim 23 (Canceled).

Claim 24 (Canceled).

Claim 25 (Canceled).

Claim 26 (Previously Presented) The program storage device readable by a machine as claimed in Claim 37, wherein said first communications sub-system comprises a telephone

system including a telephone keypad, said user identification code comprising a sequence of one or more dual-tone multi-frequency DTMF signals entered by said user via said telephone keypad.

Claim 27 (Previously Presented) The program storage device readable by a machine as claimed in Claim 37, wherein said presenting step further includes the steps of:

retrieving said personalized menu of types of data to be transmitted from a storage device; and,

generating a voice transmission for presenting said personalized menu selections to said user via said telephone system in response to said user identification code.

Claim 28 (Previously Presented) The program storage device readable by a machine as claimed in Claim 37, wherein said retrieving step b) further includes the steps of receiving DTMF signals associated with said user menu selection and interpreting said received DTMF signals for retrieving said requested data.

Claim 29 (Previously Presented) The program storage device readable by a machine as claimed in Claim 37, wherein said first communications sub-system comprises a personal computing device implementing a Web browser for accessing and communicating with said server control device via Web-based communications, said user identification code comprising a password entry via a keyboard device entered in a Web page.

Claim 30 (Original) The program storage device readable by a machine as claimed in Claim 29, wherein said presenting step further includes the steps of:

retrieving said personalized menu of types of data to be transmitted; and,
generating a Web-based communication for receipt by said user Web browser
to present said personalized menu.

Claim 31 (Original) The program storage device readable by a machine as claimed in Claim 30, wherein said retrieving step b) is responsive to a user mouse click on a Web page menu selection of a type of data to be transmitted.

Claim 32 (Canceled).

Claim 33 (Previously Presented) The system as claimed in Claim 35, further comprising:

means for providing pre-determined personalized selectable menu option choices to a user for user selection at a time of making a data request, said pre-determined personalized selectable menu option choices relating to requests for receipt of data associated with two or more user applications each adapted for execution on said wrist watch device, and which data is received and maintained for users as part of said associated user applications, wherein said menu options enable a user to set specific data delivery options in advance or at data request time, to specify what data needs to be sent and the user-specified time.

Claim 34 (Previously Presented) The method as claimed in Claim 36, further comprising:

providing pre-determined personalized selectable menu option choices to a user for user selection at a time of making a data request, said pre-determined personalized selectable menu option choices relating to requests for receipt of data associated with two or more user

applications each adapted for execution on said wrist watch device, and which data is received and maintained for users as part of said associated user applications,

wherein a user is enabled to set specific data delivery options in advance or at data request time to specify, via said menu options, what data needs to be sent and the user-specified time.

Claim 35. (Currently Amended) A system for communicating data to a wrist watch device including a wireless data receiver device for receiving wireless data communications, said system comprising:

a first communications sub-system enabling a user to initiate an asynchronous request for data to be communicated to said wrist watch device, said request including a user-specified future time and location information;

a server control device for receiving said data request via said first communications sub-system and, in response to said request, retrieving said requested data for said user and assembling said retrieved data in a suitable form, and for transmitting said data in said suitable form to a second communications sub-system, said second communications sub-system including a wireless data transmission channel for transmitting in turn said data in said suitable form to said wrist watch at a specified future time and location determined according to the time and location information included in said request, said second communications system for said wireless data transmission including in-building beacons,

said wrist watch device including an alarm mechanism for placing said wireless data receiver device in a receive mode of operation for receiving said wireless data communications in synchronism with user availability at said user-specified future time and location without requiring further user participation during said transmission, said server

control device determining a wireless beacon closest to said wireless data receiver prior to communicating said wireless data communications, and, further determining if said wireless data receiver is out of range from the beacon; and, if said server control device determines that said wireless data receiver is out of range from the beacon, said beacon communicating a last piece of data that was successfully transferred to the wrist watch device to the server control device, said server control device waiting until another beacon notifies the server device that the wireless data receiver is in range and, in response, said server control device continues the transmission of data;

wherein said user request further includes a user identification code for uniquely identifying the user's wrist watch device and ensuring proper data transmission thereto, said server control device further including a mechanism for generating a personalized menu comprising user selections of types of data to be transmitted based on said user identification code.

Claim 36. (Currently Amended) A method for communicating data to a wrist watch device implementing a wireless data receiver device for receiving wireless data communications,

a) receiving, via a first communications sub-system, an asynchronous user request for data to be communicated to said wrist watch device, said request indicating a user-specified future time and location for said requested data;

b) retrieving, in response to said user request from said first communication system, said requested data for said user and assembling said retrieved data in a suitable form;

c) transmitting said data in said suitable form over a data wireless communications channel via a second communications sub-system at a future time and location specified according to the time and location information included in the request, said second

communications sub-system for said wireless data transmission including in-building beacons; and,

d) placing said wireless data receiver device of said wrist watch in a receive mode of operation for receiving said wireless data communications in synchronism with user availability at said user-specified future time and location without requiring further user participation during said transmission,

determining, by a server control device, a wireless beacon closest to said wireless data receiver and transmitting said data to said wireless data receiver via said beacon, and,

determining if said wireless data receiver is out of range from the beacon; and, if it is determined that said wireless data receiver is out of range from the beacon, said beacon communicating a last piece of data that was successfully transferred to the wrist watch device to the server control device, and,

waiting at said server control device until another beacon notifies the server device that the wireless data receiver is in range, and,

in response, said server control device continues transmitting said data to said wireless data receiver via said another beacon;

wherein said data request includes a user identification code for uniquely identifying the user's wrist watch device and ensuring proper data transmission thereto, wherein prior to said retrieving step b), the step of presenting a personalized menu to said user, said menu comprising user selections associated with types of data to be transmitted based on said user identification code.

Claim 37 (Currently Amended) A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform method steps for

communicating data to a wrist watch device implementing a wireless data receiver device for receiving wireless data communications, said method steps including the steps of:

a) receiving, via a first communications sub-system, an asynchronous user request for data to be communicated to said wrist watch device, said request indicating a user-specified future time and location for said requested data;

b) retrieving, in response to said user request from said first communication system, said requested data for said user and assembling said retrieved data in a suitable form;

c) transmitting said data in said suitable form over a data wireless communications channel via a second communications sub-system at a future time and location specified according to the time and location information included in the request, said second communications sub-system for said wireless data transmission including in-building beacons; and,

d) placing said wireless data receiver device of said wrist watch in a receive mode of operation for receiving said wireless data communications in synchronism with user availability at said user-specified future time and location without requiring further user participation during said transmission,

determining, by a server control device, a wireless beacon closest to said wireless data receiver and transmitting said data to said wireless data receiver via said beacon, and,

determining if said wireless data receiver is out of range from the beacon; and, if it is determined that said wireless data receiver is out of range from the beacon, said beacon communicating a last piece of data that was successfully transferred to the wrist watch device to the server control device, and,

waiting at said server control device until another beacon notifies the server device that the wireless data receiver is in range, and,

in response, said server control device continues transmitting said data to said wireless data receiver via said another beacon;

wherein said data request includes a user identification code for uniquely identifying the user's wrist watch device and ensuring proper data transmission thereto, wherein prior to said retrieving step b), the step of presenting a personalized menu to said user, said menu comprising user selections associated with types of data to be transmitted based on said user identification code.